



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

C3-OH

Job Sheet 176843



Part No: C3-OH

Job Qty: 1 ea

Part Name: C-Series Remote Hook 3,000 lbs Lift Capacity



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 5/2/18

Job Tracking No: RA214 SN: 120203

Due Date: 5/18/18

Created By: Michelle Gagnon-Donovan

Type: Return

Description:

Note: DWG C3 Rev. 2 IPP Rev. A 18.04.24 new issue DP Verify DD

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	Start up Operation	1 Ea	5/18/18	5/18/18	0.00	0.00	Start Up Small Fab-4		
110	Small Fab	1 pcs	5/18/18	5/18/18	0.00	1.00	Small Fab-9		A.P.
120	QC	1 pcs	5/18/18	5/18/18	0.00	0.00	QC5		SB
130	Customer Acceptance	1 pcs	5/18/18	5/18/18	0.00	0.00			
140	Outsource	1 pcs	5/18/18	5/18/18			Outsource 2 GRO002-VC Sky Service		
150	Packaging	1 pcs	5/18/18	5/18/18	0.00	0.00	Packaging2		
160	QC	1 pcs	5/18/18	5/18/18	0.00	0.00	QC6		
170	Small Fab	1 pcs	5/18/18	5/18/18	0.00	1.00	Small Fab-9		
180	QC	1 pcs	5/18/18	5/18/18	0.00	0.00	QC5		
185	DC	1 pcs	5/18/18	5/18/18	0.00	0.00	DC		
190	Packaging	1 pcs	5/18/18	5/18/18	0.00	0.00	Packaging3-2		
200	QC21-FG	1 Ea	5/18/18	5/18/18	0.00	0.00	QC21		

Part Op 110 - TEST ASSEMBLY. DISASSEMBLE ASSEMBLY. INSPECT DAMAGE PART.

Descriptions: 170 - RE-ASSEMBLE. ***All assembly to be done in accordance with manual*** TEST ASSEMBLY.

185 - Photocopy blue file and create labels

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
C3-AR	C-Series Remote Hook 3,000 lbs Lift Capacity	1 Ea (1 ea)	100-Start up Operation	
188-FPSS-1032-1/4	Set Screw	2 Ea (2 ea)	170-Small Fab	
188-FSCS-832-5/8	Clock Spring Cover Screw	4 Ea (4 ea)	170-Small Fab	
2595K22	Heat Shrink Tube	1 Ea (1 ea)	170-Small Fab	
32446	Crimp Terminal	2 Ea (2 ea)	170-Small Fab	
600.1309-A	Label	1 Ea (1 ea)	170-Small Fab	
8183K6	Wire Guide/Grip	1 Ea (1 ea)	170-Small Fab	
AN4-16A	Bolt	3 Ea (3 ea)	170-Small Fab	
AN4-17A	Bolt	1 Ea (1 ea)	170-Small Fab	
AN6-15A	Bolt	1 Ea (1 ea)	170-Small Fab	
AN960-10	Washer	1 Ea (1 ea)	170-Small Fab	
AN960-10L	Washer, #10	2 Ea (2 ea)	170-Small Fab	
AN960-416	Flat Washer Dia 1/4"	8 Ea (8 ea)	170-Small Fab	
AN960-616L	5/8" OD, THIN FLAT WASHER see NAS1149F0632P	2 Ea (2 ea)	170-Small Fab	
	Manual Release Knob	1 Ea (1 ea)	170-Small Fab	

Plex 5/2/18 8:43 AM Dart.Gagnon.Michelle



Container No: S069157



Part: C3

Job No: 176843

Serial No/Batch: S069157

Revision: 2

Inspector:

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL.: 1 813 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Date: 05/07/18

C2-10-1	Lock Spring Pin ✓	1 pcs (1 ea)	170-Small Fab
C2-11-2	Locating Pin ✓	2 Ea (2 ea)	170-Small Fab
C2-3-1	Bearing DU ✓	2 pcs (2 ea)	170-Small Fab
C2-3-10	Latch Shaft ✓	1 Ea (1 ea)	170-Small Fab
C2-3-11 C2-3-11	Actuator	1 pcs (1 ea)	170-Small Fab
C2-3-2	Latch Roller Pin ✓	1 Ea (1 ea)	170-Small Fab
C2-3-2-1	Roller Pin Retaining Ring ✓	2 Ea (2 ea)	170-Small Fab
C2-3-3	Latch Roller	1 Ea (1 ea)	170-Small Fab
C2-3-3-1	Latch Roller DU Bearing ✓	1 Ea (1 ea)	170-Small Fab
C2-3-5	Spacer, Teflon ✓	2 Ea (2 ea)	170-Small Fab
C2-3-6	Latch ✓	1 Ea (1 ea)	170-Small Fab
C2-3-8	Actuator Bushing ✓	2 Ea (2 ea)	170-Small Fab
C2-5-1	Actuator Stop ✓	1 Ea (1 ea)	170-Small Fab
C3-10-2	Lock Spring ✓	1 Ea (1 ea)	170-Small Fab
C3-11-1	Side Plate - Solenoid C3-Hook ✓	1 Ea (1 ea)	170-Small Fab
C3-12-1	Lock Bushing 00	2 Ea (2 ea)	170-Small Fab
C3-12-2	Lock Shaft - C3 Hook	1 Ea (1 ea)	170-Small Fab
C3-12-3	Lock - C3 Hook	1 Ea (1 ea)	170-Small Fab
C3-12-4	Lock Roller ✓	1 Ea (1 ea)	170-Small Fab
C3-12-5	Lock Roller Pin	1 Ea (1 ea)	170-Small Fab
C3-12-6	Lock Roller Pin Circlip ✓	2 Ea (2 ea)	170-Small Fab
C3-13-1	Keeper Bushing ✓	2 pcs (2 ea)	170-Small Fab
C3-13-4	KEEPER	1 pcs (1 ea)	170-Small Fab
C3-13-5	Spring, Keeper ✓	1 pcs (1 ea)	170-Small Fab
C3-2-1	Side Plate C-3 Hook ✓	1 Ea (1 ea)	170-Small Fab
C3-3-4	Link Pin ✓	2 Ea (2 ea)	170-Small Fab
C3-3-4-1	Ring, Retaining ✓	4 pcs (4 ea)	170-Small Fab
C3-3-7	Link ✓	1 Ea (1 ea)	170-Small Fab
C3-3-9	Actuator Spring ✓	1 pcs (1 ea)	170-Small Fab
C3-4-1-10	Load Beam Bushing	2 Ea (2 ea)	170-Small Fab
C3-4-4	C3 Load Beam Assy	1 Ea (1 ea)	170-Small Fab
C3-7-1	Load Beam Bumper ?	1 Ea (1 ea)	170-Small Fab
C3-7-2	Lock Bumper ?	2 Ea (2 ea)	170-Small Fab
C3-8-2	Solenoid ?	1 Ea (1 ea)	170-Small Fab
C3-8-4	Solenoid Cover Gasket ?	1 Ea (1 ea)	170-Small Fab
C3-8-5	Solenoid Cover don't work	1 Ea (1 ea)	170-Small Fab
C3-9-1	Clock Spring Cover - C3 Hook	1 Ea (1 ea)	170-Small Fab
C3-9-2	Spring, Clock	1 pcs (1 ea)	170-Small Fab
EL-PLUG-M	3-Prong Male Spade Plug ?	1 Ea (1 ea)	170-Small Fab
M27500-16TG2T14	Wire - 16-Gauge - Shielded	1 pcs (1 ea)	170-Small Fab
MS21044N4	Nut, Self-Locking	8 Ea (4 ea)	170-Small Fab
MS21083-N3	Nut	2 Ea (2 ea)	170-Small Fab
MS21083N6	Nut	1 Ea (1 ea)	170-Small Fab
MS35266-63	Solenoid Cover Screw	1 Ea (1 ea)	170-Small Fab
MS35266-63	Solenoid Cover Screw ✓	1 Ea (1 ea)	170-Small Fab

E S029231

S058757

S093406

S046764

S075123

E S029246

S056845

S096109

S058758

S083629

S079664

S058759

S078462

S079472

S035073 X1

S079009

E S029266

E S029267

E S029268

S072853

E S029270

E S029271

E S029273

S077290

S068394

S082380

S048430

E S029280

S075380

S100147

S067293

S099611

S079782

S051119

S067293

S089527

S079296

S075144

S092510

S036464

S076012

S046764

E S088767

S06866

S094886

S100111

S076011

S088767

C3-12-3 NEEDS PLATING WHEN RETURNED (LOCK)

C3-4-4 (Load beam Assy) NEEDS plating when returned.

~~C2-3-11 (actuator) need plating when returned.~~

C2-3-3 (latch roller) need plating when returned.

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
100-Start up Operation	C3	1	0	0
170-Small Fab	188-FPSS-1032-1/4	2	104	0
	188-FSCS-832-5/8	4	180	0
	2595K22	1	25	0
	32446	2	100	0
	600.1309-A	1	0	0
	8183K6	1	10	0
	AN4-16A	3	179	0
	AN4-17A	1	163	0
	AN6-15A	1	11	0
	AN960-10	1	3,363	0
	AN960-10L	2	0	0
	AN960-416	8	0	0
	AN960-616L	2	0	0
	C2-1-1	1	0	0
	C2-10-1	1	0	0
	C2-11-2	2	100	0
	C2-3-1	2	0	0
	C2-3-10	1	28	0
	C2-3-11	1	0	0
	C2-3-2	1	0	0
	C2-3-2-1	2	100	0
	C2-3-3	1	0	0
	C2-3-3-1	1	29	0
	C2-3-5	2	100	0
	C2-3-6	1	0	0
	C2-3-8	2	6	0
	C2-5-1	1	20	0
	C3-10-2	1	0	0
	C3-11-1	1	0	0
	C3-12-1	2	34	0
	C3-12-2	1	0	0
	C3-12-3	1	0	0
	C3-12-4	1	0	0
	C3-12-5	1	0	0
	C3-12-6	2	46	0
	C3-13-1	2	0	0
	C3-13-4	1	0	0
	C3-13-5	1	0	0
	C3-2-1	1	0	0
	C3-3-4	2	0	0
	C3-3-4-1	4	62	0
	C3-3-7	1	50	0
	C3-3-9	1	0	0
	C3-4-1	2	0	0
	C3-4-4A	1	0	0
	C3-7-1	1	10	0
	C3-7-2	2	34	0
	C3-8-2	1	0	0
	C3-8-4	1	0	0
	C3-8-5	1	0	0
	C3-9-1	1	0	0
	C3-9-2	1	0	0
	EL-PLUG-M	1	57	0
	M27500-16TG2T14	1	0	0
	MS21044N4	4	158	0
	MS21083-N3	2	0	0
	MS21083N6	1	25	0
	MS35266-63	2	44	0

Part Specifications

Specifications could not be found.

Inspection Sheet Complete RA214

Customer QA Ref #

0

Part Number	Batch / Serial #	Quantity	Part Complete	Rev/CHG Current	New Paperwork	New Labels	Disposition	Work order #	Work order instructions
C3	120203	1	☐ Yes	☐ Yes	☐ Yes	☐ Yes	CUSTOMER SUPPLIED	S046151	Overhaul
0		0	☐ Yes	☐ Yes	☐ Yes	☐ Yes			
0		0	☐ Yes	☐ Yes	☐ Yes	☐ Yes			
0		0	☐ Yes	☐ Yes	☐ Yes	☐ Yes			
0		0	☐ Yes	☐ Yes	☐ Yes	☐ Yes			
0		0	☐ Yes	☐ Yes	☐ Yes	☐ Yes			
0		0	☐ Yes	☐ Yes	☐ Yes	☐ Yes			

QC Approval: _____ 0

Date: 0-Jan-00 _____



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

PO040197

Supplier: SKY002-VC
Skyservice
6120 Midfield Road
Mississauga
ON
L5P 1B1 Canada
Phone: 905-678-5636
Fax: 905-678-5841

PO No: PO040197
PO Date: 6/13/18
Due Date: 6/28/18
Purchase Order Revision:
Revision Date:
Ship-To Contact: Baker, Diane
Phone: dbaker@dartaero.com

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground
Pymt Terms: Net 30
Freight Terms:
Special Comments:

Line Item	Job	Part	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	177402	C2-OH	C-Series Remote Hook 2,000 lbs Lift Capacity	Firmed	6/29/18	1 pcs	0 pcs	1 pcs	\$178.00/pcs	\$178.00
2	176843	C3-OH	C-Series Remote Hook 3,000 lbs Lift Capacity	Firmed	6/29/18	1 pcs	0 pcs	1 pcs	\$178.00/pcs	\$178.00
	176988			Firmed	6/29/18	1 pcs	0 pcs	1 pcs	\$178.00/pcs	\$178.00
	178053			Firmed	6/29/18	1 pcs	0 pcs	1 pcs	\$178.00/pcs	\$178.00
Sub Total:						3	0	3		\$534.00

3	176958	C10-OH	C-Series Remote Hook 10,000 lbs Lift Capacity	Firmed	6/29/18	1 pcs	0 pcs	1 pcs	\$178.00/pcs	\$178.00
	177403	✓		Firmed	6/29/18	1 pcs	0 pcs	1 pcs	\$178.00/pcs	\$178.00
Sub Total:						2	0	2		\$356.00

4	176846	C20-OH	C-Series Remote Hook 20,000 lb Lift Capacity	Firmed	6/29/18	1 pcs	0 pcs	1 pcs	\$178.00/pcs	\$178.00
5	176289	C60-OH	C-Series Remote Hook 6,000 lbs Lift Capacity	Firmed	6/29/18	1 pcs	0 pcs	1 pcs	\$178.00/pcs	\$178.00
	176955			Firmed	6/29/18	1 pcs	0 pcs	1 pcs	\$178.00/pcs	\$178.00
Sub Total:						2	0	2		\$356.00

Grand Total: \$1,602.00

Order Notes

Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)

JB

NDT MWO36497 , 9 ASSEMBLIES

Task: 1 MWO36497

Problem:

CARRY OUT NDT ON :

2 C-SERIES REMOTE HOOK P/N : C10-OH , J/S : 177403 , 176958
 1 C-SERIES REMOTE HOOK P/N : C2-OH J/S : 177402 ✓
 3 C-SERIES REMOTE HOOK P/N : C3-OH J/S : 176843 , 176988 , 178053 ✓
 1 C-SERIES REMOTE HOOK P/N : C20-OH J/S : 176846 ✓
 2 C-SERIES REMOTE HOOK P/N : C60-OH J/S : 176289 , 176955 ✓

Action Taken:

LIQUID PENETRANT & MAGNETIC PARTICLES INSPECTION CARRIED OUT AS PER ASTM ASTM E-1444M-16 & E-1417M-16

CRACK FOUND ON : IDENTIFIED PART WITH RED TAG IN J/S : 176289

MAGBENCH S/N 208123 CAL DUE: 7-JULY-2018

POWDER 14A BATCH# MPO13600

CARRIER II BATCH# MPO13923

BLACK LIGHT - M20186

PEN ZL-37, MPO13139, CLEANER SKC-S MPO15030 , DEV. MPO15030 , EMU.(ZR-10B,MPO15896) BLACK LIGHT - M20186

Total For This Task:	.00
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NDT MWO36497 , 9 ASSEMBLIES - Fixed Labor	1	1,602.00
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Labor:	1,602.00
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NDT MWO36497 , 9 ASSEMBLIES Total:	1,602.00
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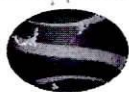
Totals:

Sub-Total:	1,602.00 CAD
GST:	80.10 CAD
QST:	159.80 CAD
Total Charges:	1,841.90 CAD

G.S.T. Registration Number 14149 4898 RT0001

Q.S.T. Registration Number 1019297914 TQ0001

BC P.S.T. Registration number: PST-1008-4786

**skyservice****Work Order Traveler**

Sky Service F.B.O. Inc.

10105 Ryan Avenue, Dorval, Quebec, H9P 1A2

TCCA AMO 53-89 / EASA 145.7142 / BDA AMO 385

WO #: MWO36497	Customer: Dart Aerospace Ltd.	Dept: NDT YUL	Reference: PO40197
Descr:	PN:	S/N:	Qty: 1
Make:	Model:	Reg:	A/C S/N:
TSN:	CSN:	TSO:	
Task: UNSCHEDULED			Sequence: 1

Work Required:**CARRY OUT NDT ON :**

2 C-SERIES REMOTE HOOK P/N : C10-OH , J/S : 177403 , 176958
1 C-SERIES REMOTE HOOK P/N : C2-OH J/S : 177402
3 C-SERIES REMOTE HOOK P/N : C3-OH J/S : 176843 , 176988 , 178053
1 C-SERIES REMOTE HOOK P/N : C20-OH J/S : 176846
2 C-SERIES REMOTE HOOK P/N : C60-OH J/S : 176289 , 176955

Action Taken:	Date:	Initial/Stamp:
LIQUID PENETRANT & MAGNETIC PARTICLES INSPECTION CARRIED OUT AS PER ASTM ASTM E-1444M-16 & E-1417M-16 CRACK FOUND ON : IDENTIFIED PART WITH RED TAG IN J/S : 176289 MAGBENCH S/N 208123 CAL DUE: 7-JULY-2018 POWDER 14A BATCH# MPO13600 CARRIER II BATCH# MPO13923 BLACK LIGHT - M20186 PEN ZL-37, MPO13139, CLEANER SKC-S MPO15030 , DEV. MPO15030 , EMU.(ZR-10B,MPO15896) BLACK LIGHT - M20186	JUN 22 2018	LM DOT-APP 278 53-89

DAS
38
9-89

I certified that the maintenance described above has been performed in accordance with the applicable standard of airworthiness.

Signature:	ACA/SCA Stamp	Date:
Name: LUCA MARCHETTA	DOT-APP 278 53-89	JUN 22 2018

MAKE SURE YOU ARE USING THE CORRECT TEST FORM FOR THE CORRECT SOLENOID!

Old SOLENOID (H2817-024)

Work Order 176843

Customer _____

Serial Number 120203

Date 6 Jun 2018

# of Releases	Load (Lbs.)	Release Method	Remarks	Result	Pass/Fail
1	7,500	Static Hold	Hold for two Minutes and reduce load to zero	N/A	PASS
10	1,500	Electircal, 25 volts	No "hang ups" permitted	N/A	PASS
2	3,000	Electircal, 22 volts	Current shall not exceed 4.5A	4.5 A	FAIL
2	2,500	Electircal, 22 volts	Current shall not exceed 4.5A	4.5 A	FAIL
2	2,000	Electircal, 22 volts	Current shall not exceed 4.5A	4.0 A	FAIL
2	1,500	Electircal, 22 volts	Current shall not exceed 4.5A	4.0 A	PASS
2	500	Electircal, 22 volts	Current shall not exceed 4.5A	4.2 A	PASS
1	3,000	Electircal, 20 volts	Current shall not exceed 4.1A	4.0 A	FAIL
1	3,000	Electircal, 28 volts	Current shall not exceed 5.7A	5.5 A	FAIL
1	3,000	Manual		N/A	PASS
1	3,000	Impact Test	Impact shackle 10 times, shall not release	N/A	PASS
1	N/A	Solenoid Ohms	Shall not exceed 4.9-5.6 Ohms	5.2 Ohm	PASS
1	N/A	Electircal Continuity	Across both wires	N/A	PASS

NOTE: FAIL TO OPEN WHEN MARKED "FAIL" ↑

Test Conducted By: Luc Lariviere
Technician

Signature: _____
QC 5 Small FAB / QA

Submit



Remote Cargo Hook Test Form

C3

MAKE SURE YOU ARE USING THE CORRECT TEST FORM FOR THE CORRECT SOLENOID!

NEW SOLENOID (152951-001)

Work Order 176 843

Customer ~~BA 214~~ Leaner

Serial Number 5069157

Date August 9 2018

# of Releases	Load (Lbs.)	Release Method	Remarks	Result	Pass/Fail
1	7,500	Static Hold	Hold for two minutes and reduce load to zero	N/A	Pass
10	1,500	Electircal, 25 volts	No "hang ups" permitted	N/A	Pass
2	3,000	Electircal, 22 volts	Current shall not exceed 12.8 A 9.2	A	Pass
2	2,500	Electircal, 22 volts	Current shall not exceed 12.8 A 9.2	A	Pass
2	2,000	Electircal, 22 volts	Current shall not exceed 12.8 A 9.2	A	Pass
2	1,500	Electircal, 22 volts	Current shall not exceed 12.8 A 9.2	A	Pass
2	500	Electircal, 22 volts	Current shall not exceed 12.8 A 9.2	A	Pass
1	3,000	Electircal, 20 volts	Current shall not exceed 11.6 A 8.4	A	Pass
1	3,000	Electircal, 28 volts	Current shall not exceed 16.2 A 11.6	A	Pass
1	3,000	Manual		N/A	Pass
1	3,000	Impact Test	Impact shackle 10x, shall not release	N/A	Pass
1	N/A	Solenoid Ohms	Shall not exceed 1.7-2.0 Ω	Ω	Pass
1	N/A	Electircal Continuity	Across both wires	N/A	Pass

Test Conducted By: Luc Larivière
Technician

Signature: Sylvie Paucher
QC 5 Small FAB / QA

Submit